MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Greenheck Fan Corporation
P.O. Box 410
Schofield, WI 54476

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model EACA-601D Aluminum Louver System with Damper

APPROVAL DOCUMENT: Drawing No. **EACA-601D**, titled "EACA-601D", sheets 1 through 10 of 10, dated 08/22/2013, prepared by the manufacturer, signed and sealed by Chander P. Nangia, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

11/26/2013

NOA No 13-0919.05
Expiration Date: December 5, 2018
Approval Date: December 5, 2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **EACA-601D**, titled "EACA-601D", sheets 1 through 10 of 10, dated 08/22/2013, prepared by the manufacturer, signed and sealed by Chander P. Nangia, P.E.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   along with marked-up drawings and installation diagram of EACA-601D louvers, prepared by Architectural Testing, Inc., Test Report No. **C6839.01-602-18**, dated 08/12/2013, signed and sealed by Shawn G. Collins, P.E.
2. Test report on High Velocity Wind Driven Rain Resistance per AMCA 550, prepared by Architectural Testing, Inc., Test Report No. **C6839.02-602-18,** dated 08/12/2013, signed and sealed by Shawn G. Collins, P.E.

C. CALCULATIONS

1. Structural calculations prepared by the manufacturer, dated 08/22/2013, signed and sealed by Chander P. Nangia, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Test report on impact test per AMCA 540 of an EACA-601D louvers, prepared by Architectural Testing, Inc., Test Report No. **C6840.01-602-44**, dated 08/12/2013, signed and sealed by Shawn G. Collins, P.E.

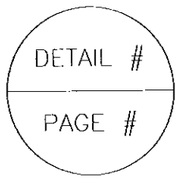
F. STATEMENTS

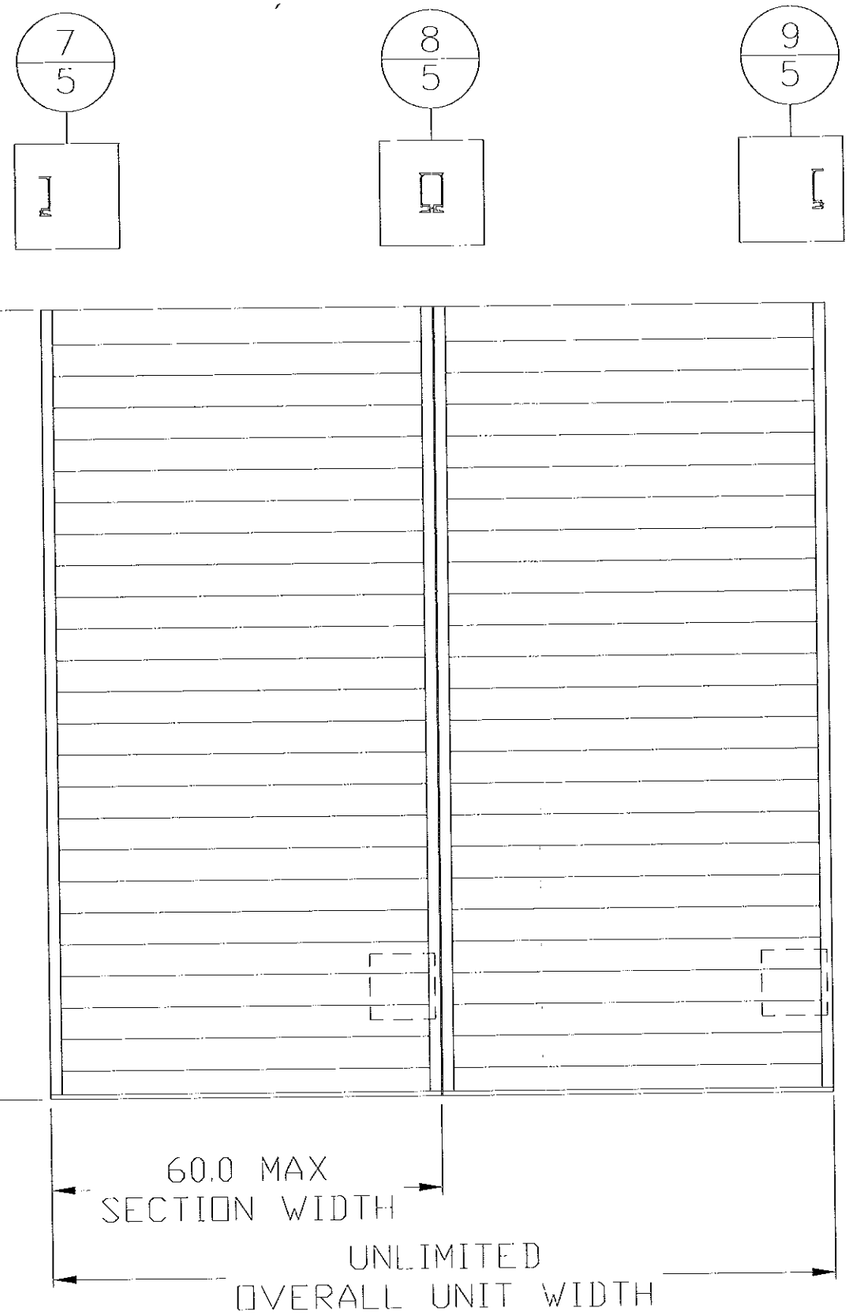
1. Statement letter of code conformance to 2010 FBC, issued by Chander P. Nangia, P.E., dated 09/08/2013, signed and sealed by Chander P. Nangia, P.E.
2. No financial interest letter issued by Chander P. Nangia, P.E., dated 09/08/2013, signed and sealed by Chander P. Nangia, P.E.

11/26/2013

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 13-0919.05
Expiration Date: December 5, 2018
Approval Date: December 5, 2013

DETAIL CALLOUT (TYPICAL)





NOTE: SECTIONS MAY BE STACKED VERTICALLY PERMITTING THERE IS SUITABLE LOAD-BEARING STRUCTURE (BY OTHERS) AT THE HEAD/SILL LOCATIONS FOR ATTACHMENT OF THE CONTINUOUS MOUNTING ANGLES.

DRAWN BY MES | DATE 08/22/13
SCALE 1:24 | SHEET NO. 1 OF 10
CAD DRAWING NO. EACA-601D

GREENHECK
P.O.BOX 410 SCHOFIELD,
WISCONSIN 54476-0410

EACA-601D

ELEVATION

TITLE

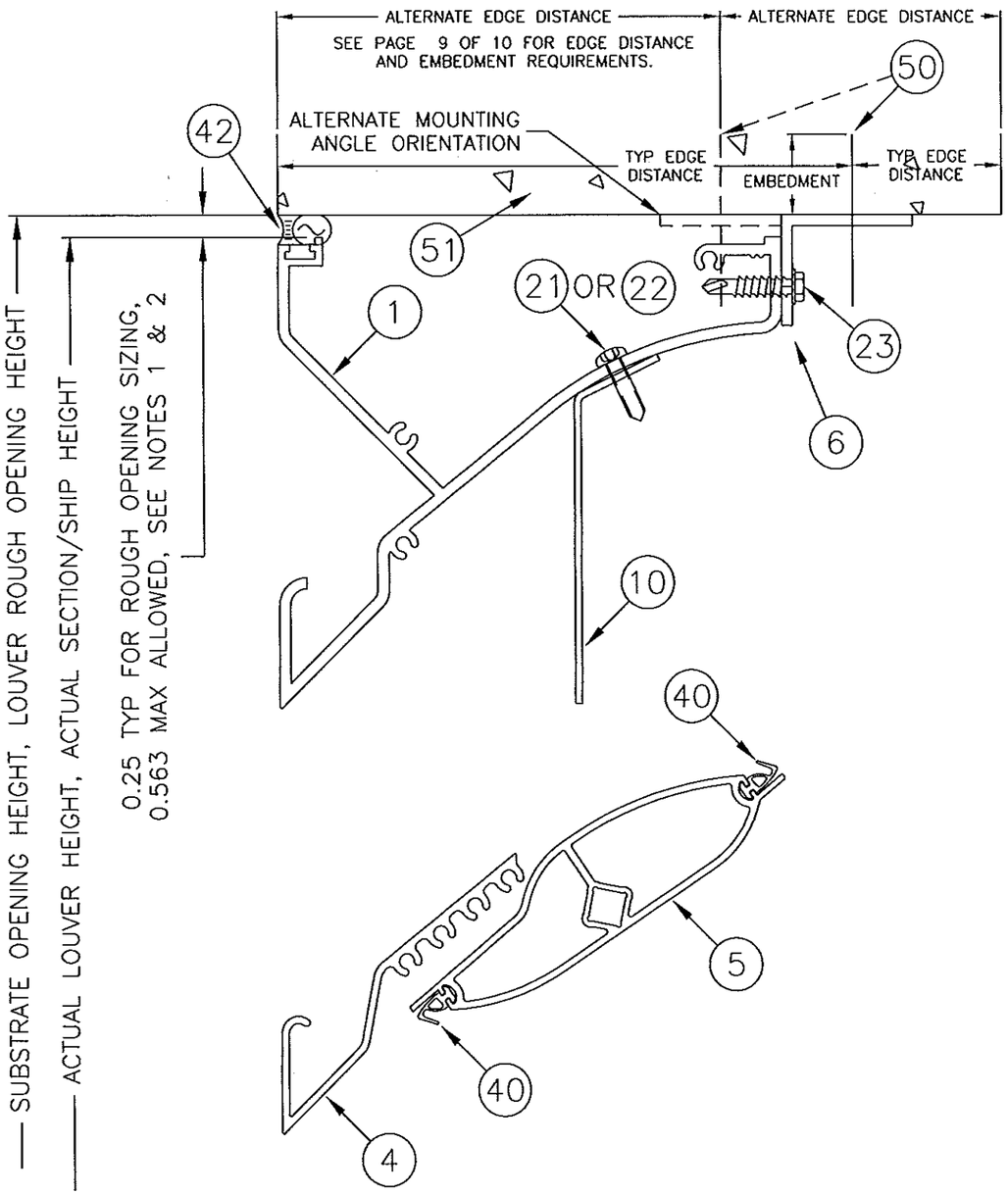
STRUCTURAL ONLY

CHANDER P. NANGIA
LICENSE
No. 21938
STATE OF FLORIDA
PROFESSIONAL ENGINEER

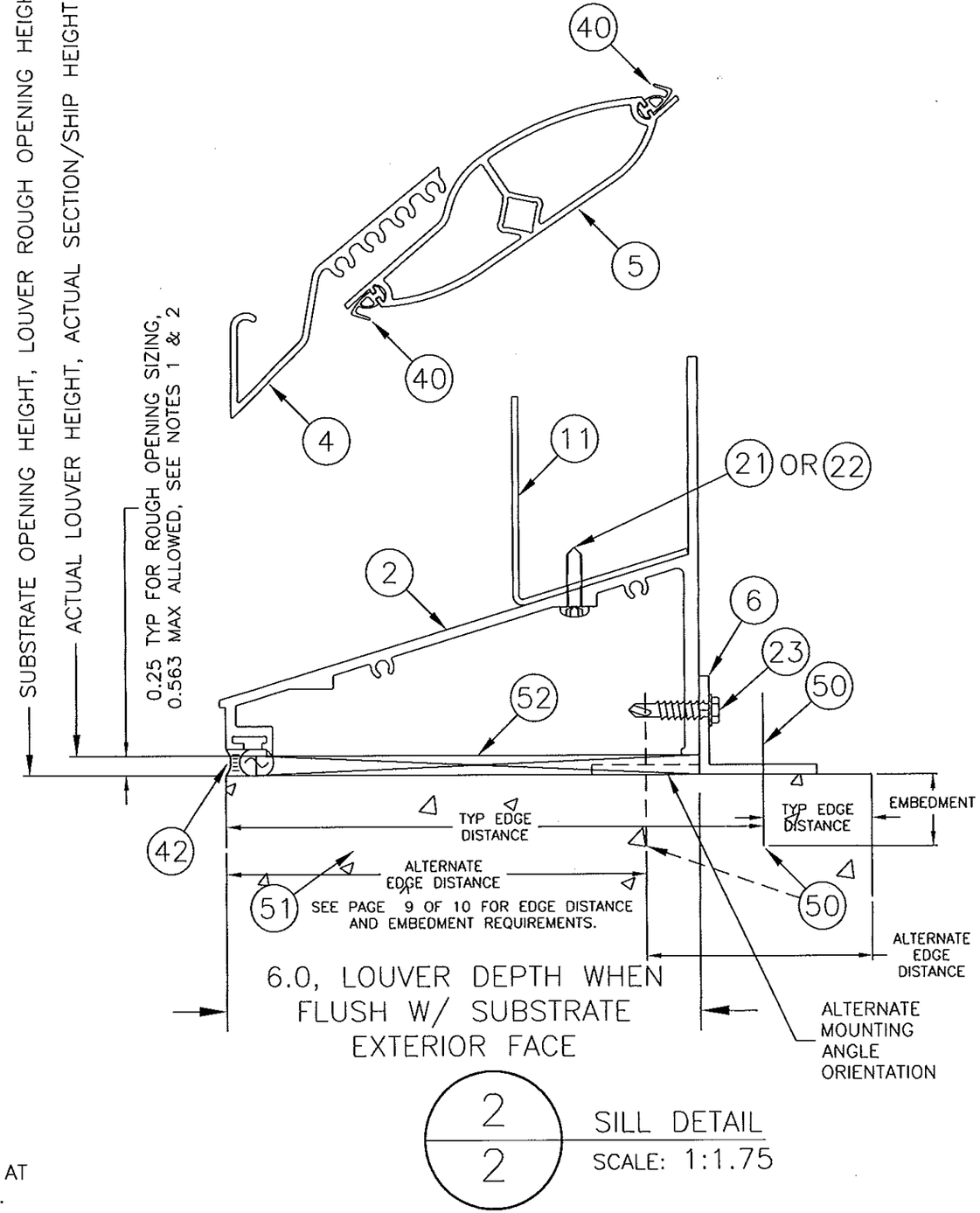
SEP 10 2013

CHANDER P. NANGIA PE:
7423 HOLLOW RIDGE DR.
HOUSTON, TX 77095
FLORIDA PE # 21938

Approved as complying with the Florida Building Code
Date 12/05/2013
NOA# 13-0919.05
Miami Dade Product Control
By



1/2 HEAD DETAIL
SCALE: 1:1.75



2/2 SILL DETAIL
SCALE: 1:1.75

NOTE 1: THE SUM OF THE MINIMUM GAP ALLOCATED TO EACH LOUVER SECTION AT THE JAMBS MUST BE ≥ 0.125 TO ACCOMMODATE POSSIBLE THERMAL MOVEMENT.

NOTE 2: END GAP MUST COMPLY TO SEALANT MANUFACTURE'S JOINT PERFORMANCE RECOMMENDATIONS.

DRAWN BY	MES
DATE	08/22/13
SCALE	1:1.75
SHEET NO.	2 OF 10
CAD DRAWING NO.	EACA-601D

GREENHECK
P.O.BOX 410 SCHOFIELD, WISCONSIN 54476-0410

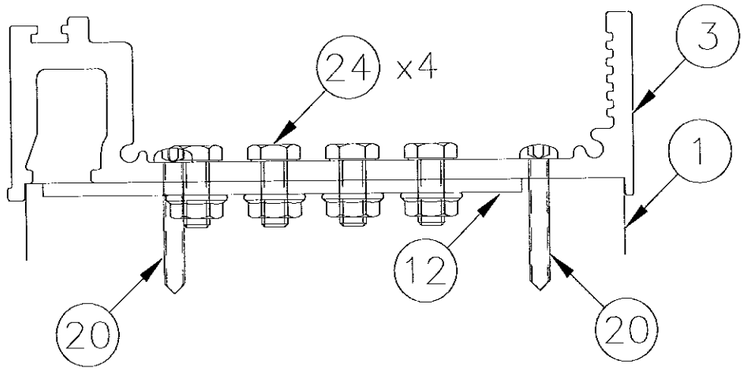
EACA-601D

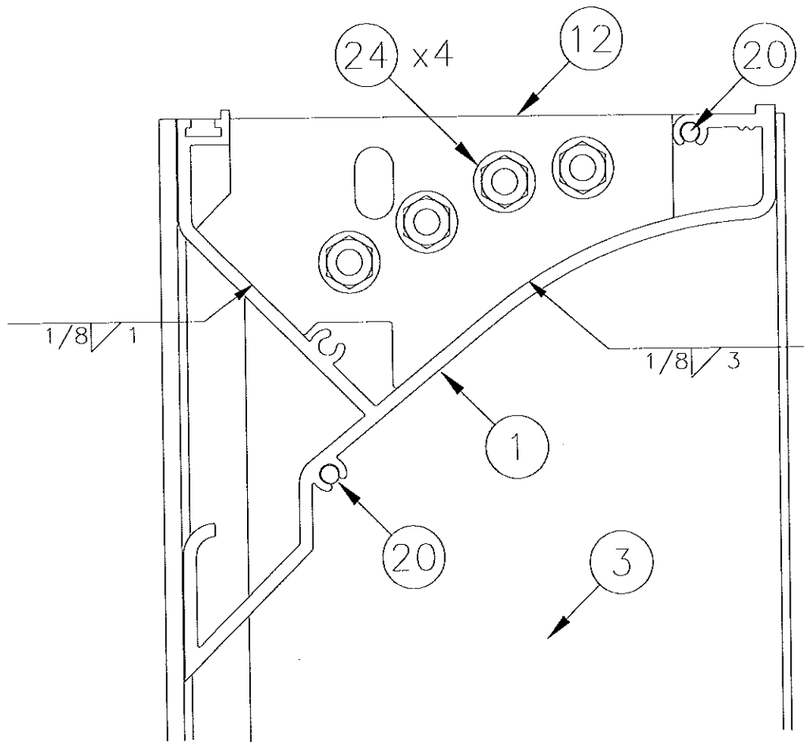
TITLE: HEAD & SILL DETAILS

CHANDER P. NANGIA
LICENSE
No. 21938
STATE OF FLORIDA
PROFESSIONAL ENGINEER
NOV 15 2013

Approved as complying with the Florida Building Code
Date 12/05/2013
NOA# 13-0919.05
Miami Dade Product Control
By

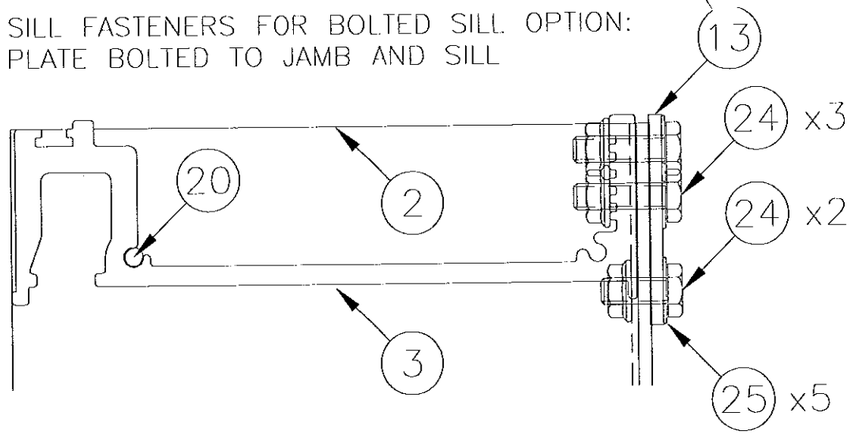
HEAD FASTENERS FOR BOLTED HEAD OPTION:
PLATE WELDED TO HEAD AND PLATE BOLTED TO JAMB

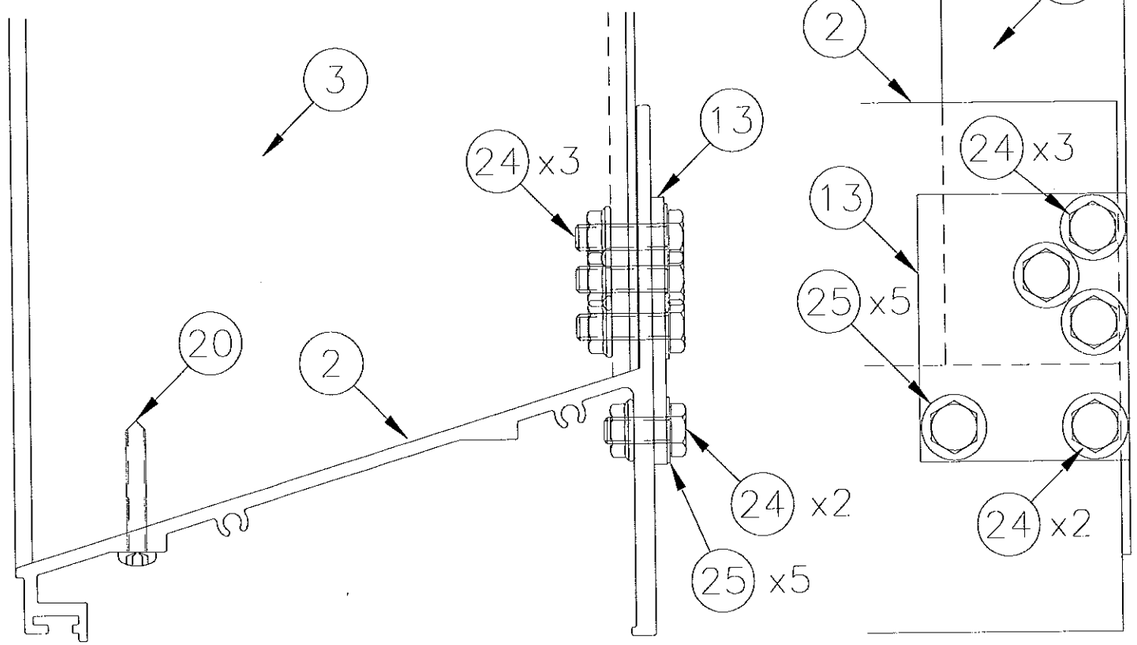




3/3 BOLTED HEAD, PROJECTED VIEWS
SCALE: 1:1.5

SILL FASTENERS FOR BOLTED SILL OPTION:
PLATE BOLTED TO JAMB AND SILL





4/3 BOLTED SILL, PROJECTED VIEWS
SCALE: 1:1.5

GREENHECK
P.O.BOX 410 SCHOFIELD,
WISCONSIN 54476-0410

DRAWN BY	MES
DATE	08/22/13
SCALE	1:1.5
SHEET NO.	3 OF 10
CAD DRAWING NO.	EACA-601D

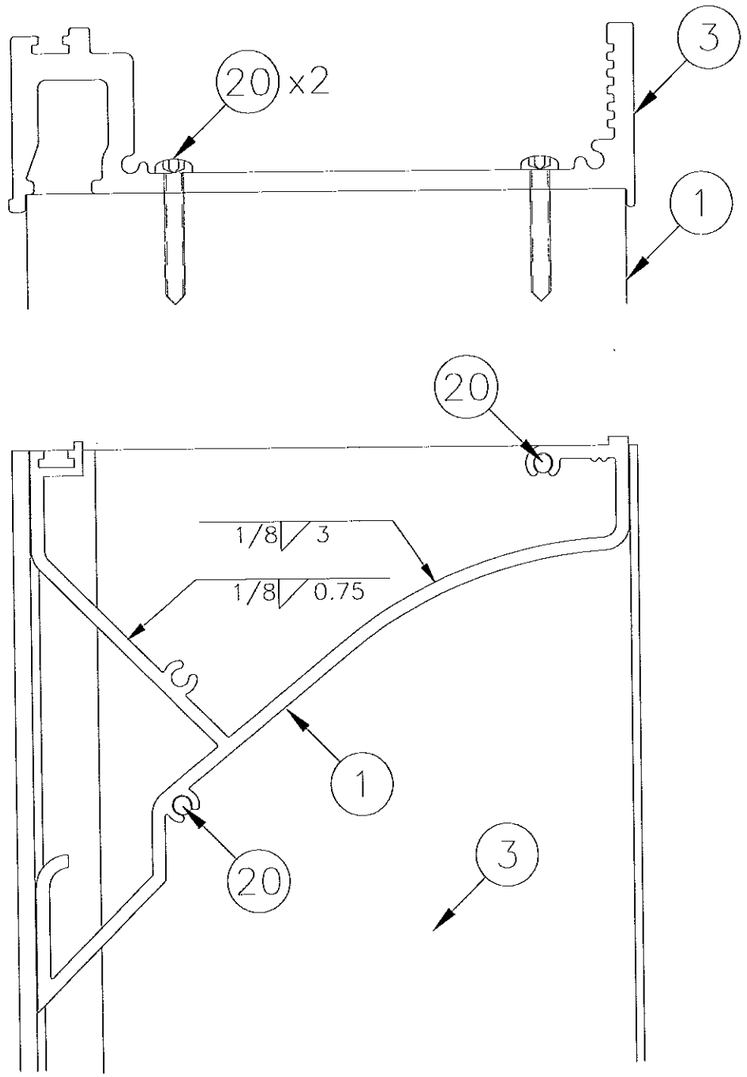
EACA-601D

TITLE: BOLTED HEAD & SILL SETUP

CHANDER P. NANGIA
LICENSE
No. 21933
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SEP 10 2013

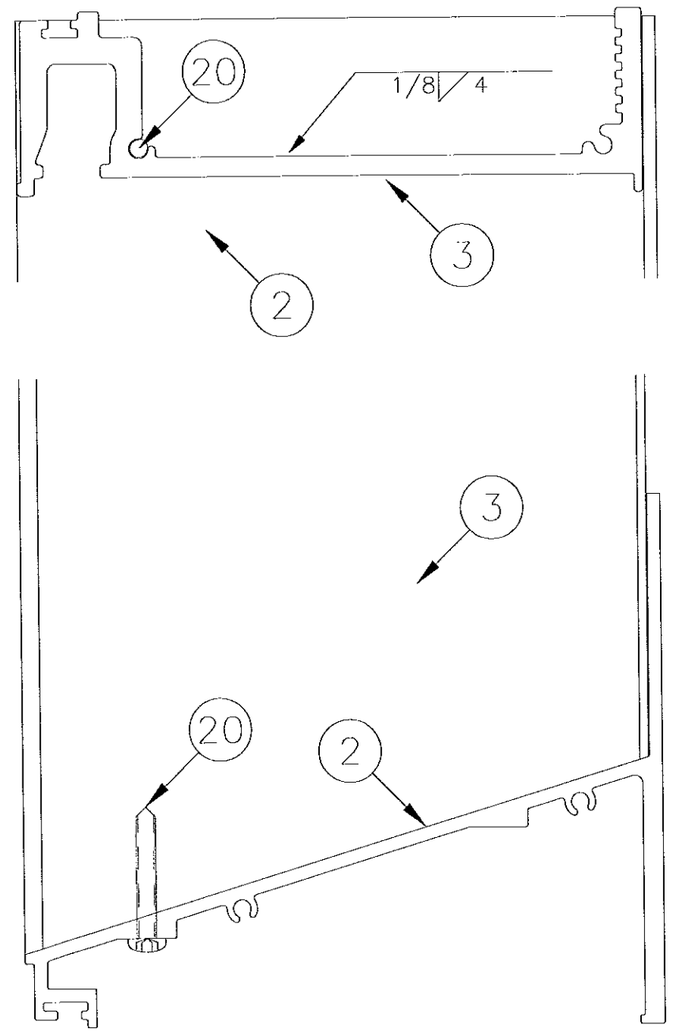
Approved as complying with the Florida Building Code
Date 12/05/2013
NOA# 13-0919.05
Miami Dade Product Control
By

HEAD FASTENERS FOR WELDED HEAD OPTION:
HEAD WELDED DIRECTLY TO JAMB



5/4 WELDED HEAD, PROJECTED VIEWS
SCALE: 1:1.5

SILL FASTENERS FOR WELDED SILL OPTION:
JAMB WELDED DIRECTLY TO SILL



6/4 WELDED SILL, PROJECTED VIEWS
SCALE: 1:1.5

DRAWN BY	MES
DATE	08/22/13
SCALE	1:1.5
SHEET NO.	4 OF 10
CAD DRAWING NO.	EACA-601D

GREENHECK
P.O.BOX 410 SCHOFIELD,
WISCONSIN 54476-0410

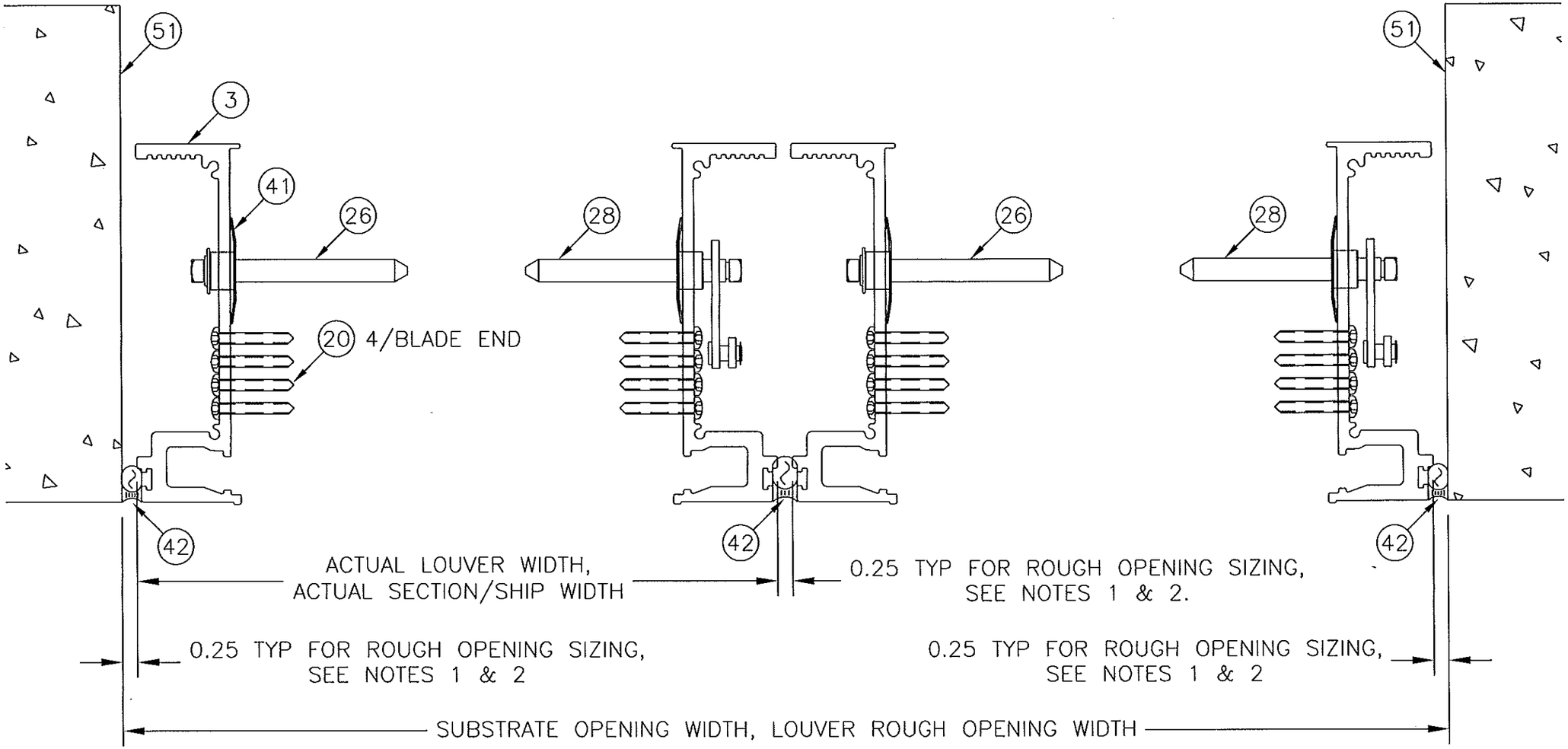
EACA-601D

TITLE: WELDED HEAD & SILL SETUP

CHANDER P. NANGIA
LICENSE
No. 21938
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SEP 10 2013

Approved as complying with the
Florida Building Code
Date 12/05/2013
NOA# 13-0919.05
Miami Dade Product Control
By



7/5 JAMB, NON-DRIVE SIDE
SCALE: 1:2

8/5 MULLION
SCALE: 1:2

9/5 JAMB, DRIVE SIDE
SCALE: 1:2

NOTE 1: THE SUM OF THE MINIMUM GAP ALLOCATED TO EACH LOUVER SECTION AT THE JAMBS MUST BE ≥ 0.125 TO ACCOMMODATE POSSIBLE THERMAL MOVEMENT.

NOTE 2: END GAP MUST COMPLY TO SEALANT MANUFACTURE'S JOINT PERFORMANCE RECOMMENDATIONS.

DRAWN BY	MES
DATE	08/22/13
SCALE	1:2
SHEET NO.	5 OF 10
CAD DRAWING NO.	EACA-601D

GREENHECK
P.O.BOX 410 SCHOFIELD,
WISCONSIN 54476-0410

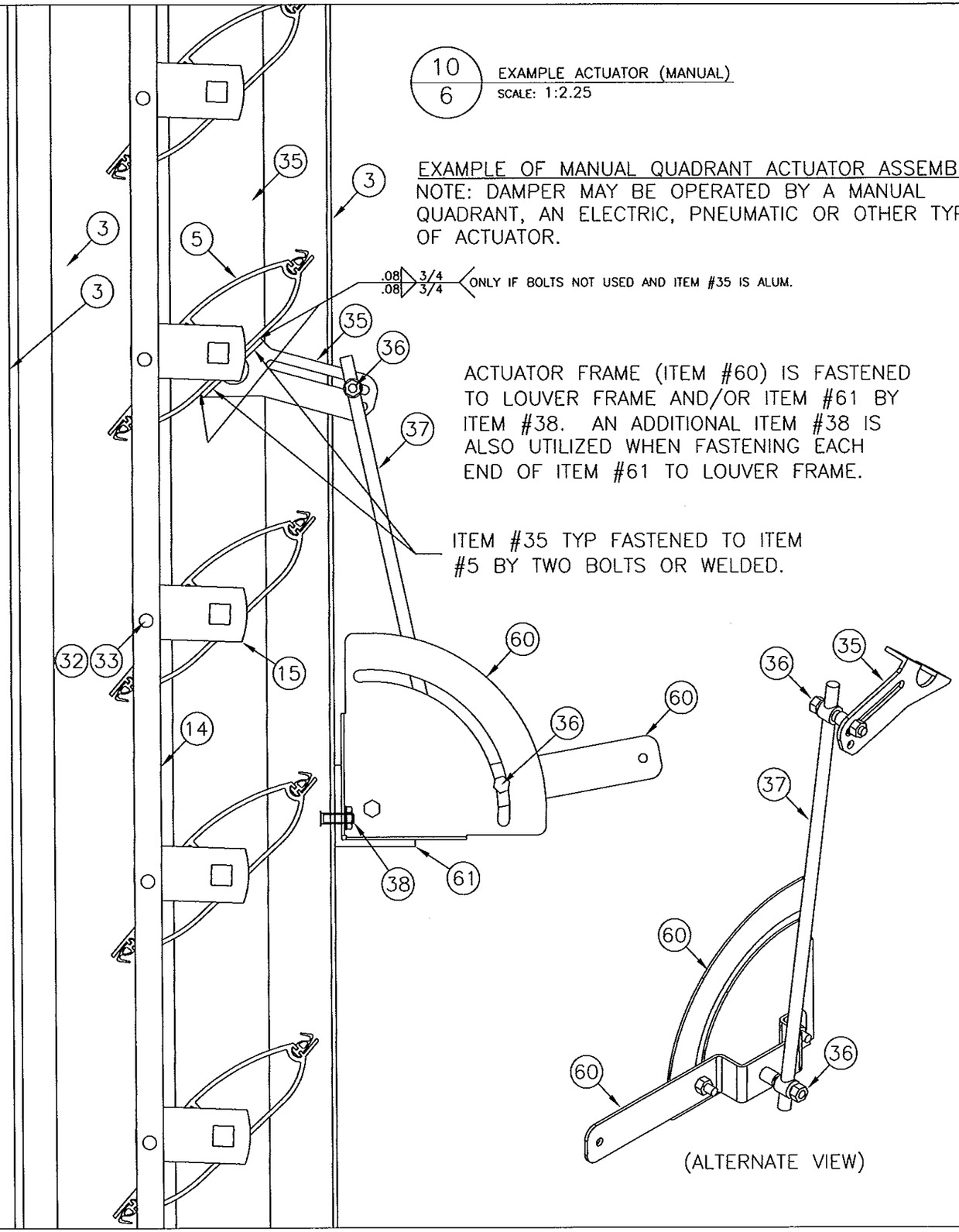
EACA-601D

TITLE: JAMB AND MULLION DETAILS

CHANDER P. NANGIA
LICENSE
No. 21938
STATE OF FLORIDA
PROFESSIONAL ENGINEER

NOV 15 2013

Approved as complying with the Florida Building Code
Date 12/05/2013
NOA# 13-0919.05
Miami Dade Product Control
By

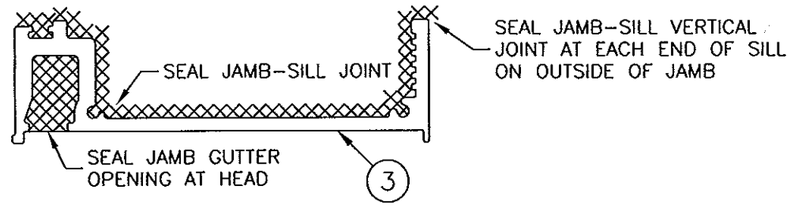


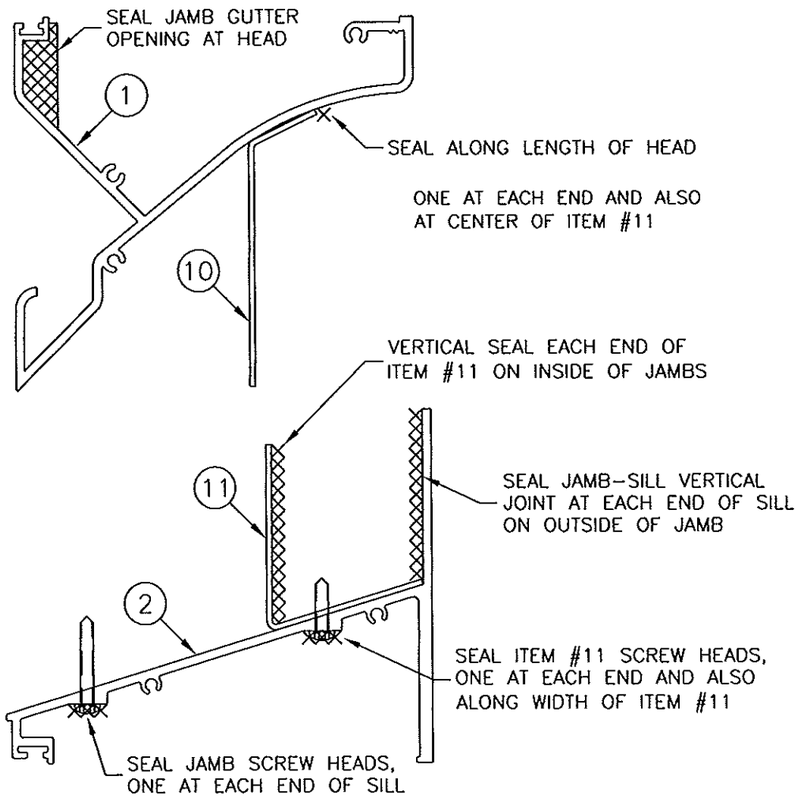
(ALTERNATE VIEW)

10/6 EXAMPLE ACTUATOR (MANUAL)
SCALE: 1:2.25

EXAMPLE OF MANUAL QUADRANT ACTUATOR ASSEMBLY
NOTE: DAMPER MAY BE OPERATED BY A MANUAL QUADRANT, AN ELECTRIC, PNEUMATIC OR OTHER TYPE OF ACTUATOR.

ACTUATOR FRAME (ITEM #60) IS FASTENED TO LOUVER FRAME AND/OR ITEM #61 BY ITEM #38. AN ADDITIONAL ITEM #38 IS ALSO UTILIZED WHEN FASTENING EACH END OF ITEM #61 TO LOUVER FRAME.





11/6 SEALANT, BY MANUFACTURER
SCALE: 1:2.25

DRAWN BY MES
DATE 08/22/13
SCALE 1:2.25
SHEET NO. 6 OF 10
CAD DRAWING NO. EACA-601D

GREENHECK
P.O.BOX 410 SCHOFIELD, WISCONSIN 54476-0410

EACA-601D

TITLE: EXAMPLE ACTUATOR & SEALING

CHANDER P. NANGIA
LICENSE
No. 21938
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PROFESSIONAL ENGINEER
NOV 15 2013

Approved as complying with the Florida Building Code
Date 12/05/2013
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Miami Dade Product Control
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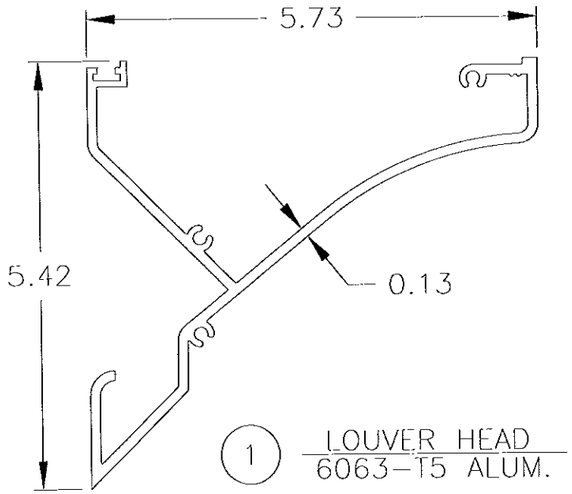
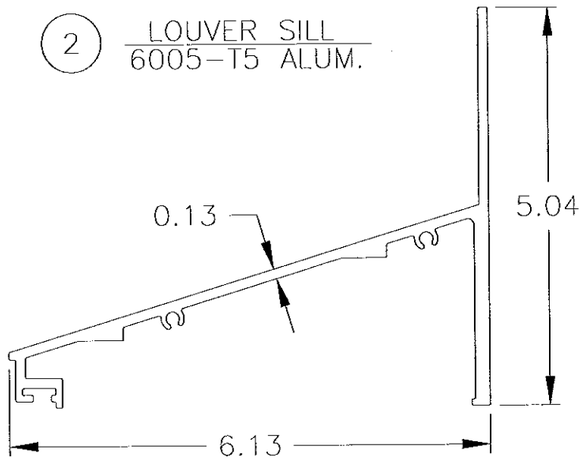
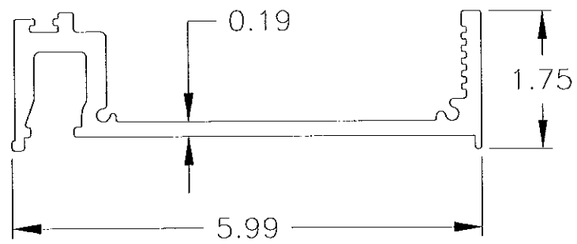


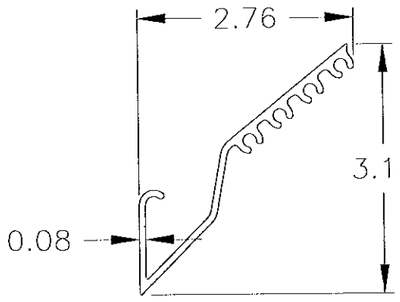
1 LOUVER HEAD
6063-T5 ALUM.



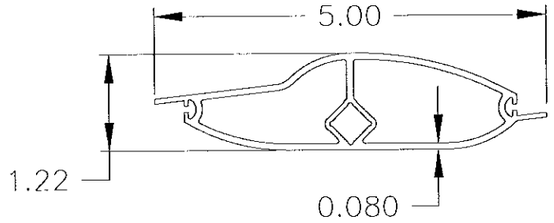
2 LOUVER SILL
6005-T5 ALUM.



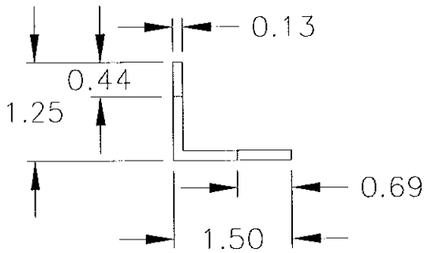
3 LOUVER JAMB
6005-T5 ALUM.



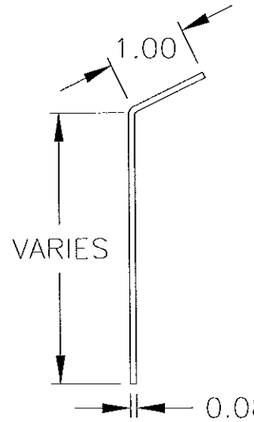
4 FIXED BLADE
6063-T5 ALUM.



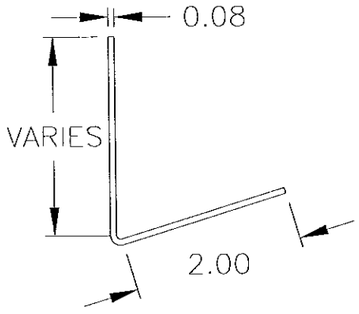
5 ADJUSTABLE BLADE
6063-T5 ALUM.



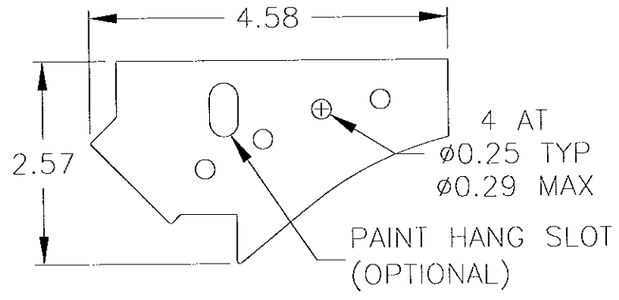
6 LOUVER MOUNTING ANGLE
6061-T6 ALUM.



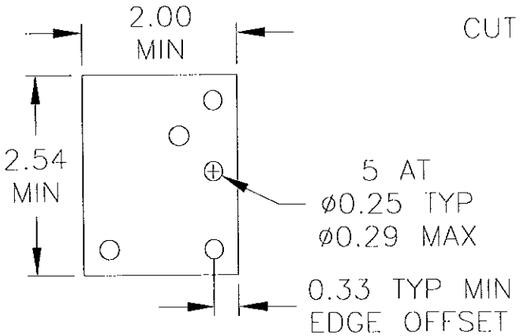
10 HEAD BLADE STOP
(VARIES) ALUM.



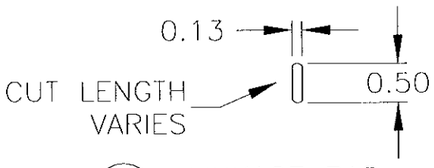
11 SILL BLADE STOP
(VARIES) ALUM.



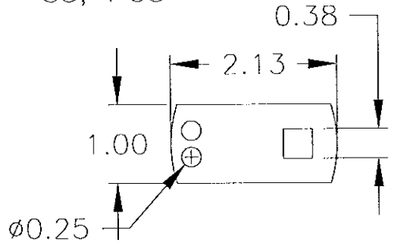
12 HEAD BOLT PLATE
.125 5052-H32 ALUM.



13 SILL BOLT PLATE
.125 5052-H32 ALUM.



14 LINKAGE BAR
SS, PCS



15 PIN LEVER ARM
12GA SS, ZP STEEL

ALL SHOWN DIMENSIONS ARE MINIMUMS
SS = STAINLESS STEEL
PCS = PLATED OR COATED STEEL

DRAWN BY	MES
DATE	08/22/13
SCALE	1:2
SHEET NO.	7 OF 10
CAD DRAWING NO.	EACA-601D

GREENHECK
P.O.BOX 410 SCHOFIELD, WISCONSIN 54476-0410

EACA-601D

PART PROFILES

TITLE

CHANDER P. NANGIA
LICENSE
No. 21938
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SEP 10 2013

Approved as complying with the Florida Building Code
Date 12/05/2013
NOA# 13-0919.05
Miami Dade Product Control
By

3/8" POWERS WEDGE BOLT FASTENER TABLE

FASTENER NUMBER	50A			
DESCRIPTION	3/8" POWERS WEDGE BOLT			
SUBSTRATE	NORMAL WEIGHT CONCRETE		CONCRETE MASONRY (CMU)	
MINIMUM	2.5 KSI		6" WIDE, GRADE N, TYPE II, LIGHT/MEDIUM/NORMAL WEIGHT CMU CONFORMING TO ASTM C90, 1.5 KSI GROUT FILLED	
EDGE DISTANCE (MIN)	2 IN	3 IN	1-1/2 IN	2 IN
SLAB/BLOCK CORNER DISTANCE (MIN)	2 IN	3 IN	1-1/2 IN	2 IN
PENETRATION (MIN)	2-1/8 IN		2-1/2 IN	
ANCHOR ANGLE END DISTANCE (MIN)	<= (ANCHOR SPACING)/2+3		<= (ANCHOR SPACING)/2+3	
LOUVER HEIGHT (IN)	SPACING (IN)		SPACING (IN)	
≤120	6	8	NOT ALLOWED	NOT ALLOWED
≤96	8			6
≤72			6	8
≤48			8	

LAG SCREW, SCREW, & BOLT W/NUT FASTENER TABLE

FASTENER NUMBER	50C	50D	50E		
DESCRIPTION	1/4" LAG SCREW	3/8" LAG SCREW	1/4"-20 SCREW OR BOLT W/NUT		
SUBSTRATE	WOOD		STEEL		ALUMINUM
MINIMUM	G ≥ 0.42		A36 STEEL OR Fy≥36 KSI		STRESSES ≥ 6063-T5
EDGE DISTANCE (MIN)	1 IN	1-1/2 IN	1/2 IN		1/2 IN
CORNER DISTANCE (MIN)	1 IN	1-1/2 IN	1/2 IN		1/2 IN
PENETRATION* (MIN)	2-3/4 IN		16GA (0.06 IN)	3/16 IN	16GA (0.06 IN)
LOUVER HEIGHT (IN)	SPACING (IN)		SPACING (IN)		SPACING (IN)
≤120	4	6	4	6	4
≤96		8	6		6
≤84					
≤72	6				

1/4" TAPCON SCREW FASTENER TABLE

FASTENER NUMBER	50B		
DESCRIPTION	1/4" TAPCON W/ ADVANCED THREADFORM		
SUBSTRATE	CONCRETE OR CONCRETE MASONRY (CMU)		
MINIMUM	CONCRETE: 3 KSI ACI 301 CONCRETE CMU: ASTM C90, 3 KSI GROUT FILLED, LIGHT-WIGHT ≥ 95 PCF, MEDIUM-WEIGHT ≥ 117 PCF		
EDGE DISTANCE (MIN)	1 IN	1-1/2 IN	2-1/2 IN
SLAB/BLOCK CORNER DISTANCE (MIN)	1 IN	1-1/2 IN	2-1/2 IN
PENETRATION (MIN	1-3/4 IN		
LOUVER HEIGHT (IN)	SPACING (IN)		
≤120	4	4	6
≤84		6	
≤72	6		

CONTINUOUS ANGLE TO LOUVER FRAME SCREW (FASTENER = ITEM #23)

LOUVER HEIGHT (IN)	MAXIMUM SPACING (IN)
≤120	3.75
≤108	4

* PENETRATION IS EQUAL TO OVERALL FASTENER LENGTH FOR CONCRETE/CMU FASTENERS. IF SHIMS ARE USED, FASTENER LENGTH MUST BE INCREASED BY THICKNESS OF SHIMS.

DATE 08/22/13
DRAWN BY MES
SCALE NA
SHEET NO. 9 OF 10
CAD DRAWING NO. EACA-601D

GREENHECK
P.O.BOX 410 SCHOFIELD,
WISCONSIN 54476-0410

EACA-601D

TITLE: FASTENER TABLES

CHANDER P. NANGIA
LICENSE
No. 21938
STATE OF FLORIDA
PROFESSIONAL ENGINEER
NOV 15 2013

Approved as complying with the Florida Building Code
Date 12/05/2013
NOA# 12-0919.05
Miami Dade Product Control
By

ITEM	DESCRIPTION	MATERIAL	NOTES
1	LOUVER HEAD	ALUM	
2	LOUVER SILL	ALUM	
3	LOUVER JAMB	ALUM	
4	LOUVER FIXED BLADE	ALUM	4.8" SPACING
5	LOUVER ADJUSTABLE BLADE	ALUM	4.8" SPACING
6	LOUVER MOUNTING ANGLE, CONTINUOUS	ALUM	AT HEAD & SILL ONLY
10	HEAD BLADE STOP	ALUM	
11	SILL BLADE STOP	ALUM	
12	HEAD BOLT PLATE	ALUM	NOT REQUIRED IF HEAD IS WELDED DIRECTLY TO JAMB
13	SILL BOLT PLATE	ALUM	NOT REQUIRED IF SILL IS WELDED DIRECTLY TO JAMB
14	LINKAGE BAR	SS/PCS	
15	PIN LEVER ARM	SS/PCS	CRIMPED TO PIN
20	#10 x 1.25 MIN SCREW	SS/PCS	
21	#10 x 3/4 MIN SCREW, 4" MAX END DISTANCE	SS/PCS	24" MAX O.C. ALONG BLADE STOP
22	1/8 MIN DIA. RIVET, 4" MAX END DISTANCE	SS/ALUM/PC	24" MAX O.C. ALONG BLADE STOP
23	1/4-20 x 1 SCREW, 4" MAX END DISTANCE	SS/PCS	SEE FASTENER TABLE
24A	1/4-20 x 5/8 LONG MIN BOLT W/ FLANGE NUT	SS/PCS	AT HEAD AND UNDER SLOPED SILL
24B	1/4-20 x 7/8 LONG MIN BOLT W/ FLANGE NUT	SS/PCS	AT SILL ABOVE SLOPED SILL
25	0.04 x 1/4 x 5/8 WASHER	SS/PCS	
26	NON-DRIVE PIN ASSEMBLY	VARIOUS	
27	NON-DRIVE PIN ASSEMBLY	VARIOUS	ALLOWED TO REPLACE ITEM 26
28	DRIVE PIN ASSEMBLY	VARIOUS	ALLOWED TO REPLACE ITEM 26
29	ADJUSTABLE BLADE PIN	SS/PCS	
30	PIN BUSHING	SS/BRONZE/DELRIN	
31	1/4 E-CLIP	SS/PCS	
32	7/32 E-CLIP	SS/PCS	
33	1/4 x 0.5 KNURL PIN	SS/PCS	PRESS FIT INTO PIN LEVER ARM
34	0.04 x 3/8 SQUARE x 3/4 WASHER	SS/PCS	
35	ADJUSTABLE BLADE DRIVE LEVER	SS/ALUM/PCS	
36	1/4-20 x 9/16 BALL SWIVEL W/ NUT	SS/PCS	
37	5/16 DIA. LINKAGE ROD	SS/PCS	
38	#10-32 x 5/8 THREAD STUD W/ NUT	SS/PCS	
40	ADJUSTABLE BLADE SEAL	VINYL/SILICONE	
41	JAMB SEAL	SS	
42	SEALANT AND BACKER ROD	VARIES	NOT BY MANUFACTURER
50A	3/8 POWERS WEDGE BOLT	SS/PCS	SEE FASTENER TABLE
50B	1/4 TAPCON W/ ADVANCED THREADFORM SCREW	SS/PCS	SEE FASTENER TABLE
50C	1/4 LAG SCREW	SS/PCS	SEE FASTENER TABLE
50D	3/8 LAG SCREW	SS/PCS	SEE FASTENER TABLE
50E	1/4-20 SCREW OR 1/4-20 BOLT W/NUT	SS/PCS	SEE FASTENER TABLE
51A	CONCRETE, 1.5 OR 3 KSI	CONCRETE	NOT BY MANUFACTURER
51B	CMU, 1.5 OR 3 KSI GROUT FILLED	CONCRETE	NOT BY MANUFACTURER
51C	STRUCTURAL STEEL, 3/16 36 KSI	STEEL	NOT BY MANUFACTURER
51D	STEEL STUD, 16GA FY 36 KSI	STEEL	NOT BY MANUFACTURER
51E	WOOD, G 0.42	WOOD	NOT BY MANUFACTURER
51F	ALUMINUM, 1/8 6063-T5	ALUM	NOT BY MANUFACTURER
52	INCOMPRESSIBLE SHIM, OPTIONAL, AS REQUIRED	VARIES	NOT BY MANUFACTURER
60	ACTUATOR, COMPONENTS VARY AMONG TYPES	VARIES	TYP VARIES, NOT ALWAYS BY MANUFACTURER
61	ACTUATOR MOUNTING ANGLE (MAY OR MAY NOT BE REQUIRED BASED ON ACTUATOR MOUNT TYPE)	ALUM	BY MANUFACTURER WHEN MANUFACTURER MOUNTS ACTUATOR

GENERAL NOTES:

1. IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE LOUVER ASSEMBLY.

2. THIS LOUVER HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PROTOCOLS [AND QUALIFIED IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE (FBC) AND TEST PROTOCOLS/STANDARDS]:
   TAS-201 (LARGE MISSILE IMPACT TEST)
   TAS-202 (UNIFORM STATIC WIND PRESSURE TEST)
   TAS-203 (UNIFORM CYCLIC WIND PRESSURE TEST)
   AMCA STANDARD 550-09 (HIGH VELOCITY WIND-DRIVEN RAIN TEST)

3. THIS LOUVER HAS BEEN DESIGNED, TESTED, AND APPROVED TO WITHSTAND DESIGN PRESSURES OF UP TO AND INCLUDING +/-110 PSF.

4. THE LOUVER MAY BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS NOT DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM OR THE ROOM WILL HOUSE NON-WATER RESISTANT OR NON-WATER PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.

5. THE MAXIMUM SINGLE SECTION SIZE IS 60" WIDE BY 120" HIGH. THE MAXIMUM OVERALL/ASSEMBLED SIZE IS UNLIMITED WIDE (BY USE OF MULTIPLE SECTIONS OF 60" WIDE OR LESS) BY 120" HIGH. SECTIONS/ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDED THERE IS SUITABLE STRUCTURAL SUPPORT (DESIGNED AND INSTALLED BY OTHERS) TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER HEAD AND/OR SILL TO THE SUBSTRATE.

6. ALL WOOD SUBSTRATE SHALL HAVE SPECIFIC GRAVITY (G) $\geq$ 0.42.

7. ALL STEEL STUD SUBSTRATE SHALL BE MIN 16 GA, FY $\geq$ 36 KSI.

8. ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN 3/16" THICK, FY $\geq$ 36 KSI.

9. ALL CONCRETE SUBSTRATE SHALL BE RATED $\geq$ 1.5 KSI OR $\geq$ 2.5 KSI OR $\geq$ 3 KSI AS REQUIRED BASED ON FASTENER TYPE USED.

10. CONCRETE MASONRY (CMU) SHALL BE $\geq$ THE FOLLOWING: 6" WIDE, GRADE N, TYPE II, LIGHT/MEDIUM/NORMAL-WEIGHT CMU CONFORMING TO ASTM C90, AND (AS REQUIRED BASED ON FASTENER TYPE USED) 1.5 KSI OR 3 KSI GROUT-FILLED.

11. ALL ALUMINUM SUBSTRATE SHALL BE MIN 1/8" THICK, WITH ALLOWABLE STRESSES $\geq$ THAT OF 6063-T5.

12. LOUVER CONSTRUCTION: HEAD, SILL, JAMBS, AND BLADES ARE SQUARE CUT AT BOTH ENDS. FIXED AND ADJUSTABLE BLADE SPACING IS 4.8". FIXED BLADES ARE SECURED TO THE JAMBS WITH (4) SCREWS PER BLADE END. ADJUSTABLE BLADES ARE SECURED TO THE JAMBS WITH (1) PIN PER BLADE END. EACH JAMB IS SECURED TO THE SILL WITH (1) SCREW AND TO THE HEAD WITH (2) SCREWS. THE HEAD IS ALSO SECURED TO THE JAMB WITH (4) BOLTS PER HEAD END OR WELDED DIRECTLY TO THE JAMBS. THE SILL IS ALSO SECURED TO THE JAMB WITH (3) BOLTS PER SILL END OR WELDED DIRECTLY TO THE JAMBS.

13. INSTALLER TO PROVIDE SEPARATION OF DISSIMILAR MATERIALS AS REQUIRED. SEE FL BLDG CODE SECTION 2003.8.4 FOR DETAILS.

14. ALL STAINLESS STEEL (SS) AND PLATED OR COATED STEEL (PCS) PARTS PROVIDED BY MANUFACTURER ARE INHERENTLY CORROSION RESISTANT OR HAVE A CORROSION RESISTANT COATING.

15. STEEL/STANLESS STEEL/ALUMINUM PARTS MAY BE MADE OUT OF ALTERNATE ALLOY THAT HAS EQUAL OR GREATER YIELD STRENGTH.

ITEM TABLE NOTES:
PCS = PLATED OR COATED STEEL
SS = STAINLESS STEEL
ALL SHOWN "DESCRIPTION" DIMENSIONS ARE MINIMUMS. FLANGE NUT ALLOWED TO BE REPLACED WITH A STANDARD NUT AND WASHER.

DATE 08/22/13
DRAWN BY MES
SCALE NA
SHEET NO. 10 OF 10
CAD DRAWING NO. EACA-601D

GREENHECK
P.O.BOX 410 SCHOFIELD,
WISCONSIN 54476-0410

EACA-601D

NOTES

TITLE

CHANDER P. NANGIA
LICENSE
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